

1. **Name:** Jian-yu Lu

2. **Education – degrees, discipline, institution, year:**

Ph.D. in Biomedical Engineering, Southeast University, China, 1985 – June 1988

M.S. in Acoustics/Physics, Tongji University, China, 1982 –1985

B.S. in Electrical Engineering/Physics, China, February 1978 – February 1982.

3. **Academic Experience - 31 years**

Professor, Dept of Bioengineering, 1997-Present.

Adjunct Professor, Dept of Medicine, 1998-Present.

Graduate Program Director, Bioengineering, 2009-2002.

Associate Professor, Department of Physiology and Biophysics, Mayo Clinic/Mayo Medical School, USA, 1997.

Assistant Professor, Department of Physiology and Biophysics, Mayo Clinic/Mayo Medical School, USA, 1991-1997

Associate Consultant, Department of Physiology and Biophysics, Mayo Clinic/Mayo Medical School, USA, 1991-1997

Research Associate, Department of Physiology and Biophysics, Mayo Clinic/Mayo Medical School, USA, 1990-1991

Postdoc, Department of Physiology and Biophysics, Mayo Clinic/Mayo Medical School, USA, 1988-1990

4. **Current membership in professional organizations:**

Fellow, Institute of Electrical and Electronics Engineers (IEEE) (elected in 2008)

Fellow, American Institute of Ultrasound in Medicine (AIUM) (elected in 2005)

Fellow, American Institute of Medical and Biomedical Engineering (AIMBE) (elected in 2007)

Member, Acoustical Society of America (ASA)

Member, Sigma Xi

5. **Honors and Awards:**

*Outstanding Services Award, IEEE UFFC Society, 2016*

*Outstanding Papers Award for two papers in IEEE Transactions on UFFC, 1992*

*Edward C. Kendall Award, Mayo Clinic, 1992*

*National Institute of Health (NIH) FIRST Award, 1991*

*Whitaker Foundation Award, 1991*

*First Prize Award, 2nd Youth Biomedical Engineering Conference, Nanjing, China, 1987*

*Second Prize Award of Youth Excellent Paper, 1986 Joint Biomedical Engineering Conference, Wuhan, China*

6. **Service Activities (most important within and outside of the institution)**

***National and International:***

2018-Present: Senior Past President, IEEE UFFC Society

2016-2017: Junior Past President, IEEE UFFC Society

2016-2017: Chair, Nominations, IEEE UFFC Society

2016-Present: Member, Editorial Board, IEEE Access Journal

2016-Present: Member, Nominations Chair, Ultrasonics Standing Committee of IEEE UFFC Society

2016-Present: Member, Executive Committee, IEEE Toledo Section

2014-2015: President, IEEE UFFC Society

2014-2015: Member, IEEE Technical Activities Board (TAB), IEEE

2012-2013: President-Elect, IEEE UFFC Society

2009-2011: Elected AdCom Member, IEEE UFFC Society

2009-Present: Chair, Bylaws and Constitution, IEEE UFFC Society

2008: General Chair, 2008 IEEE International Ultrasonics Symposium with over 1,000 attendees, Beijing, China

2002-2007: Editor-in-Chief, IEEE Transactions on UFFC

2001: Technical Program Committee Chairs, 2001 IEEE International Ultrasonics Symposium, Atlanta, GA, USA

2000-Present: Member, Ultrasonics Standing Committee, IEEE UFFC Society

2000 and many later years: Session Chairs, IEEE International Ultrasonics Symposia

1999-Present: Member, Technical Program Committee (TPC), IEEE International Ultrasonics Symposia

1996 and many later years: Exhibit Chair, IEEE International Ultrasonics Symposia

1996 and other years: many miscellaneous services in IEEE Committees and IEEE UFFC Society

***University, College, and Department:***

2018-Present: Chair, Department Personal Committee (DPC), University of Toledo

2000-2001: Chair, Department Personal Committee (DPC), University of Toledo

2001-2017: Member, Department Personal Committee (DPC), University of Toledo

1997-2013: Member, University Patent Committee (UPC), University of Toledo

1998-2013: Member, Research Center and Institute Review Team, University of Toledo

2000-2003: Member, Engineering Committee on Academic Personnel (ENCAP), University of Toledo.

2000 and other years: Chair, Graduate Curriculum Committee of College of Engineering.

2000 and other years: Member, Graduate Committee of College of Engineering.

2000 and other years: Member, Search Committee of Chair of EECS Department.

2000 and other years: Member, Search Committee of the Associate Dean of the College of Engineering.

1999 and other years: Director, Center for Medical Imaging & Data Mining, The University of Toledo.

1999 and other years: Other services in Department of Bioengineering, website development, Dissertation and thesis committees, undergraduate advisors, and misc services.

**7. Most important Publications/Presentations:**

***Refereed Journal Articles/Patents/Conference Papers – last 5 years:***

**Jian-yu Lu**, "Improving quality of high-frame-rate imaging with coherent and incoherent processing," in 2018 IEEE International Ultrasonics Symposium Proceedings (DOI: 10.1109/ULTSYM.2018.8579887).

**Jian-yu Lu**, "Speckle Noise Reduction for High-Frame-Rate Imaging," in 2017 IEEE International Ultrasonics Symposium Proceedings (DOI: 10.1109/ULTSYM.2017.8092437).

**Jian-yu Lu**, "Recursive Fourier-Based High-Frame Rate Imaging," in 2014 IEEE International Ultrasonics Symposium Proceedings, pp. 121-124, 2014.

**Jian-yu Lu**, "Reducing clutter noise in fast ultrasound imaging with transverse high-pass filtering," in 2013 IEEE International Ultrasonics Symposium Proceedings (2013 Joint UFFC, EFTF, and PFM Symposium), pp. 1244-1247, 2013.

**Jian-yu Lu**, "Limited-Diffraction Beams for High-Frame-Rate Imaging," in the book, *Non-Diffracting Waves*, Editors: Hugo E. Hernandez-Figueroa, Erasmo Recami, and Michel Zamboni-Rached, Publisher: John Wiley & Sons, Inc., (Wiley-VCH), Chapter 5, pp.135-160, 2014. (Invited book chapter as a review with 88 references to the latest development of the high-frame-rate imaging).

***Conference presentations and posters – last 4 years: (FIRST AUTHOR IS PRESENTER)***

**Jian-yu Lu**, "Improving quality of high-frame-rate imaging with coherent and incoherent processing," [2018 IEEE International Ultrasonics Symposium Proceedings, Kobe, Japan, October 22-25, 2018].

**Jian-yu Lu**, "Speckle Noise Reduction for High-Frame-Rate Imaging," [2017 IEEE International Ultrasonics Symposium Proceedings, Washington D.C., USA, September 6-9, 2017].

**Jian-yu Lu**, "Recursive Fourier-Based High-Frame Rate Imaging," [2014 IEEE International Ultrasonics Symposium Proceedings, Chicago, IL, USA, September 3-6, 2014].

**Jian-yu Lu**, "Pulse-echo medical ultrasound imaging based on Fourier image reconstruction," [Next Generation Medical Imaging, Carnegie Mellon University (CMU), Pittsburg, Pennsylvania, USA, September 5-6, 2012] (Invited Talk - a video recording of the talk is on a CMU website).

**8. Professional development activities in the last five years:**

*Attended and/or presented at many national and international conferences.*